

EX PARTE OR LATE FILED

Sprint

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May 3, 2000

VIA HAND DELIVERY

Magalie Roman Salas
Secretary
Federal Communications Commission
1919 M Street, N.W.
Room 222
Washington, D.C. 20554

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MAY 03 2000
FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF THE SECRETARY

ORIGINAL

**Re: *Ex Parte* Notification: Revisions of the Commission's Rules To Ensure
Compatibility with Enhanced 911 Emergency Calling Systems,
CC Docket No. 94-102, DA 99-1049**

Dear Ms. Salas:

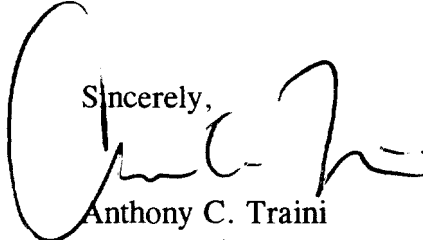
Sprint PCS ("Sprint") hereby files an original and two copies of a notification of an *ex parte* contact in CC Docket No. 94-102, DA 99-1049.

Jonathan Chambers and Terry Rayburn of Sprint met with Daniel Grosch, Kris Montieth, Blaise Scinto, and Patrick Forster of the Wireless Telecommunications Bureau to discuss enhanced 911 location technologies.

A copy of Sprint's presentation is attached.

Please contact the undersigned with any questions

Sincerely,


Anthony C. Traini
Legal Analyst

Attachments

No. of Copies rec'd
List ABCDE

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Perspectives on E911 Phase 2

Terry Rayburn
Senior Product Manager
Safety, Security and Telematics
May 1, 2000

The 3-tier Proposal Sprint PCS Made in 12/6/99 FCC Petition for Reconsideration

- Develop a Safety Net in our network for users of legacy handsets
 - A Good solution for our existing customers
- Offer most if not all handsets with improved handset location using Advanced FLT* by October 2001
 - A Better solution for most new customers
- Offer 2 GPS handset models by October 2001
 - The Best solution for customer who choose it
- Add capability in our network to process handset location signals and deliver them to Public Safety
- Offer additional GPS handset models as costs go down and market interest develops

*Advanced Forward Link Trilateration

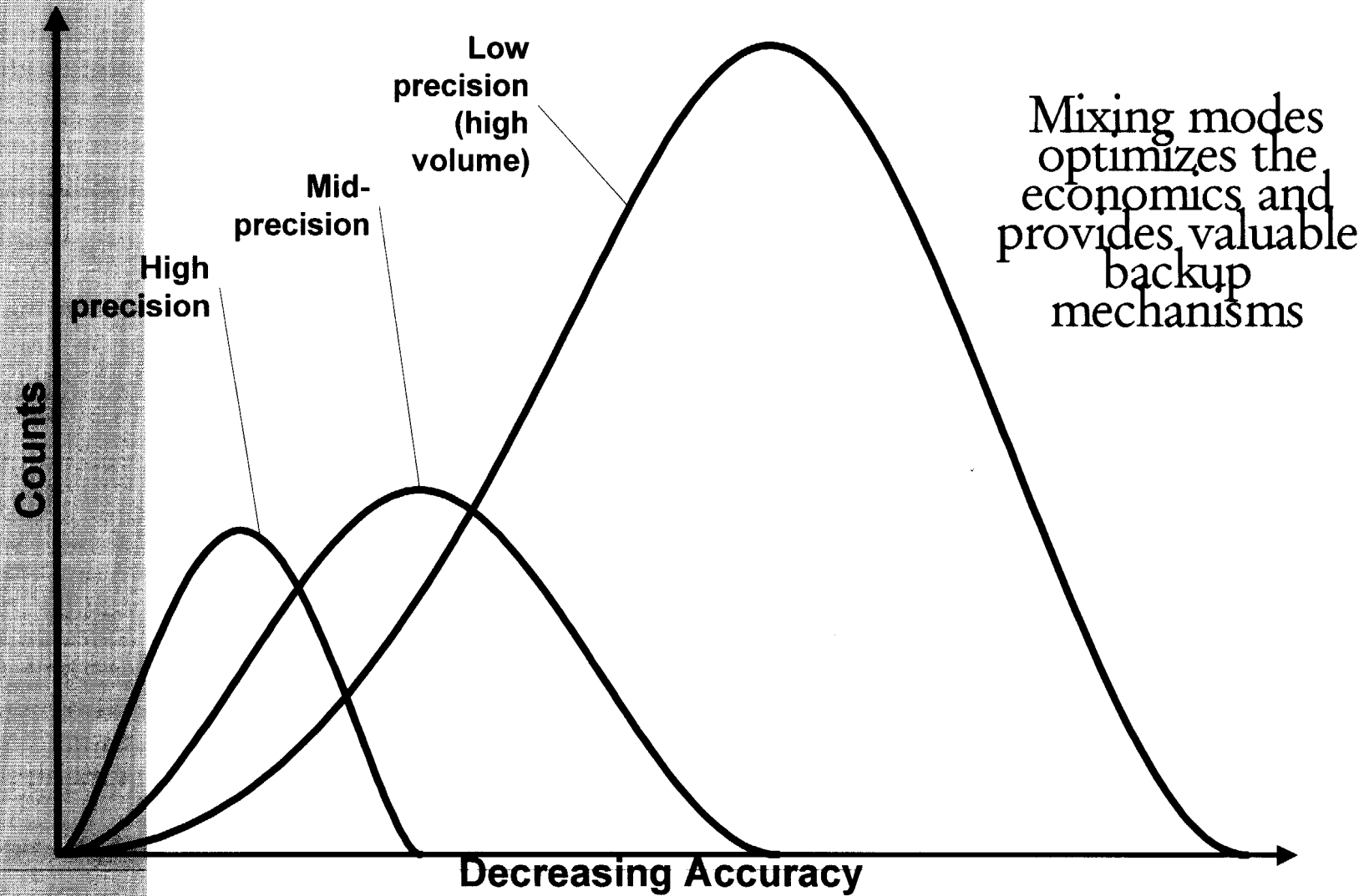
Sprint PCS Pursues Multiple Mechanisms for Location

- **The Sprint PCS Safety Net will use existing IS-95 signals and messages**
- **Sprint PCS is implementing IS-801 in its network**
- **Key players in IS-801 standards development included Lucent, Motorola, SiRF, SnapTrack, and Qualcomm**
- **IS-801 supports:**
 - **Aided GPS**
 - **Advanced Forward Link Trilateration using IS-95 radio signals**
 - **Autonomous GPS**
 - **Hybrid solutions combining GPS ranging signals and IS-95 radio signals**

The Sprint PCS Approach Offers Substantial Benefits

- Support some measure of location for all customers through a common interface
 - Legacy handsets
 - New handsets
 - High-end specialized devices
 - Automobile users
- Identify the quality of the measurement
- Insure privacy
- Applications might be:
 - Call control and improved routing
 - Voice information services
 - Wireless Websm information services
 - Vertical applications

Large Numbers of Low Precision Measures Yield Useful Numbers of Quality Locations



If You Only Did The Minimum, What Would 911 Call Distribution Look Like?

- Legacy
- ⊠ GPS handsets

Overwhelming majority of 911 calls with wide scatter

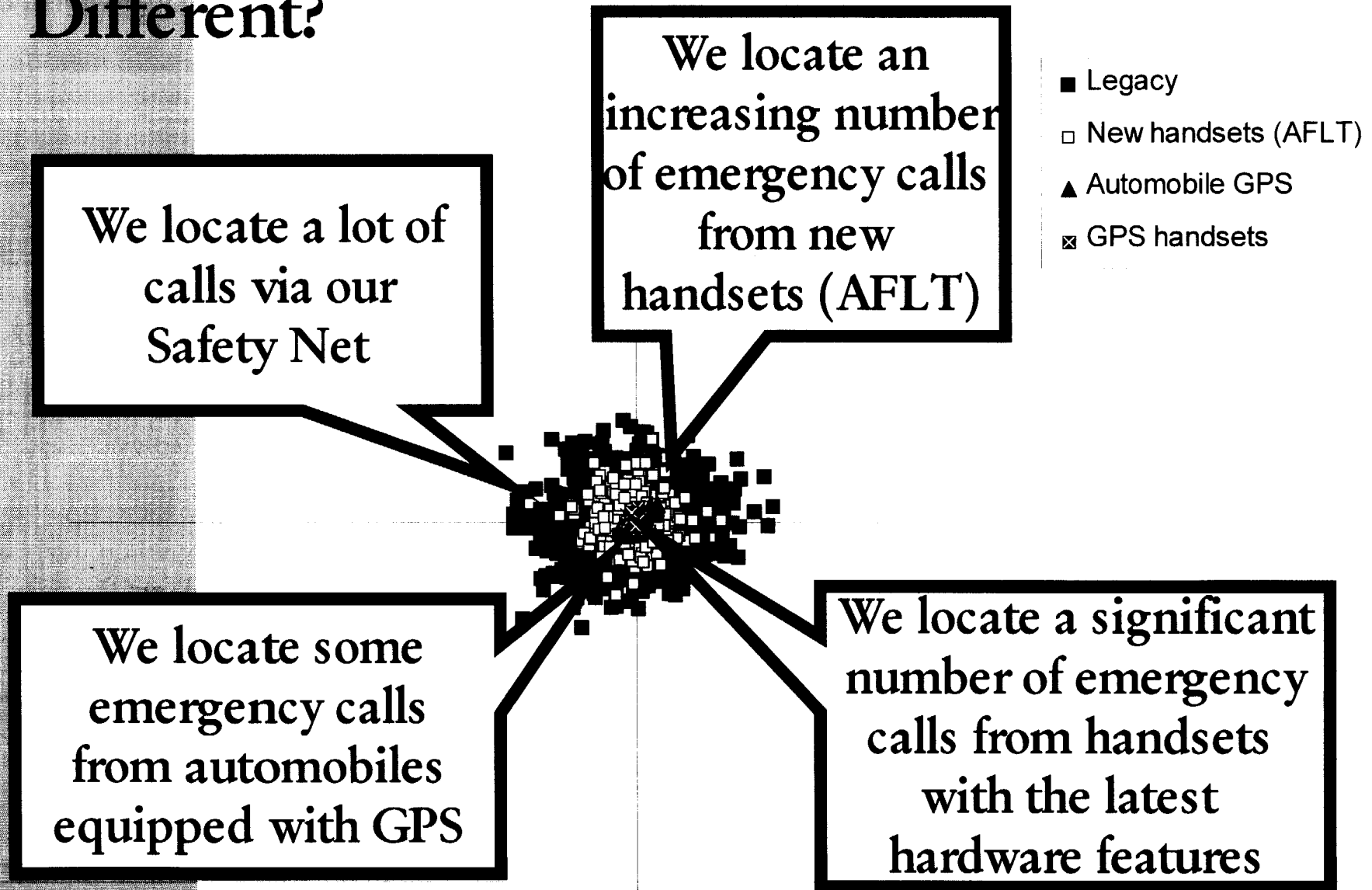
A few calls get high accuracy

Location error of emergency calls

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Sprint PCS®

Well, How Is the Sprint PCS Plan Different?



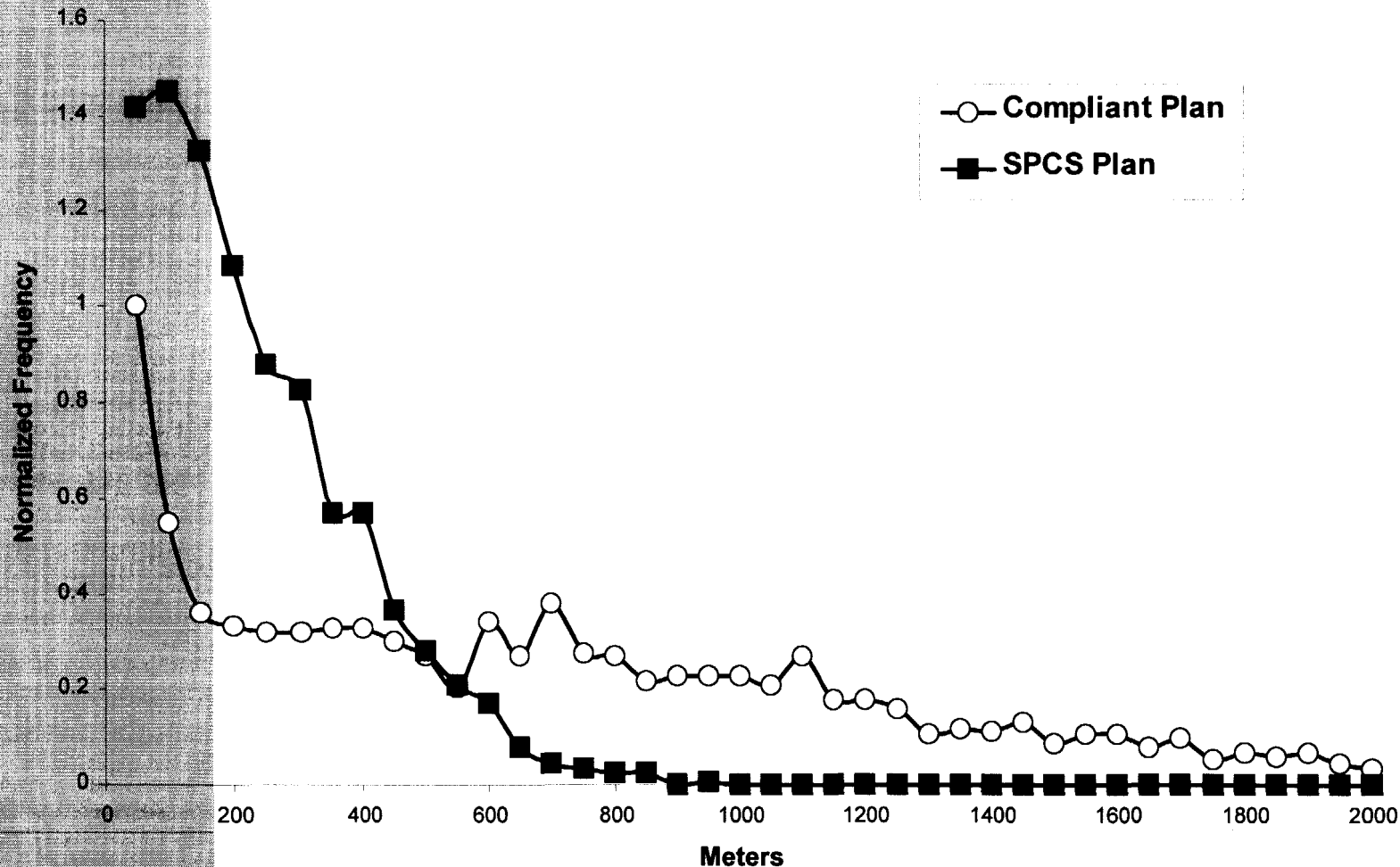
Location error of emergency calls

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Cumulative Model of Emergency Location Calls Shows Substantial Public Benefit

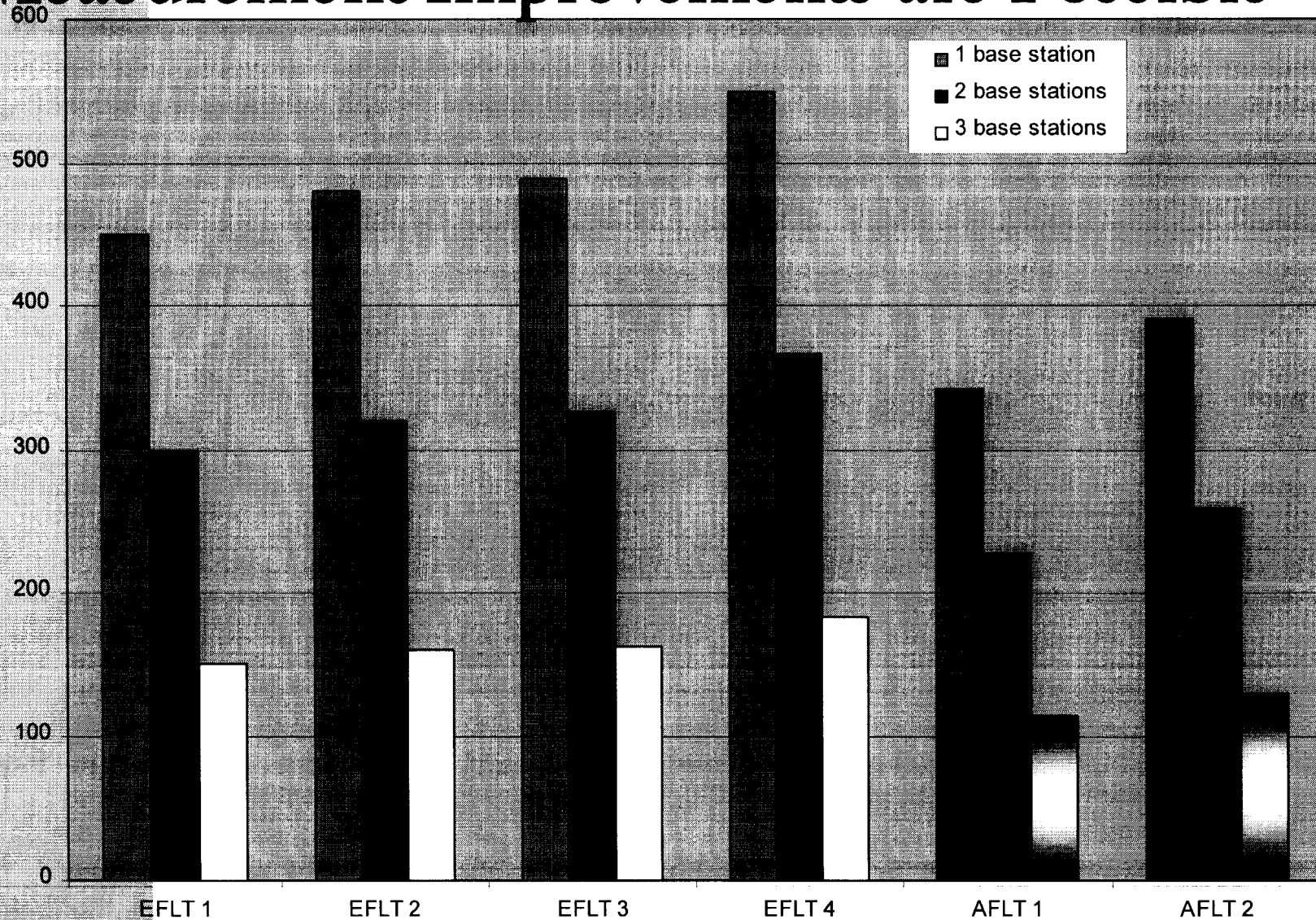
One Day 911 Call Distribution



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Early AFLT Data Suggests Useful Measurement Improvements are Possible



Sprint.

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Sprint PCS Developments Continue

- Earlier tests included EFLT evaluation and trials with SnapTrack in Tampa
- Recently concluded evaluation of a network overlay solution with Radix
- Proceeding to trial GPS One with Qualcomm and Lucent in NJ/Manhattan area
- Active Recruitment of Early Adopters Begins Summer 2000
- Plan Due to FCC October 1, 2000